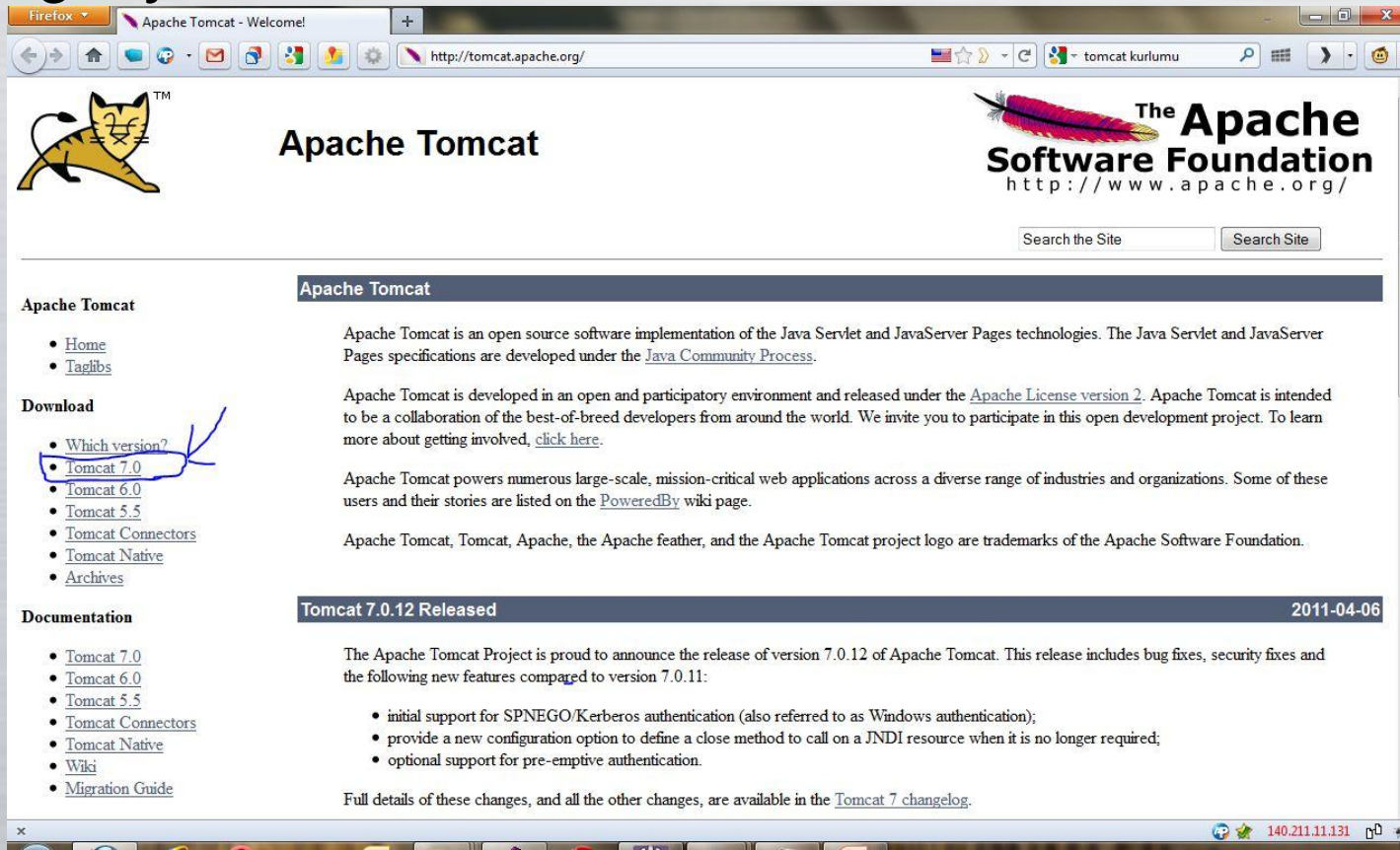




# **Tomcat, Struts ve Eclipse Enterprise Edition Kurulumu**

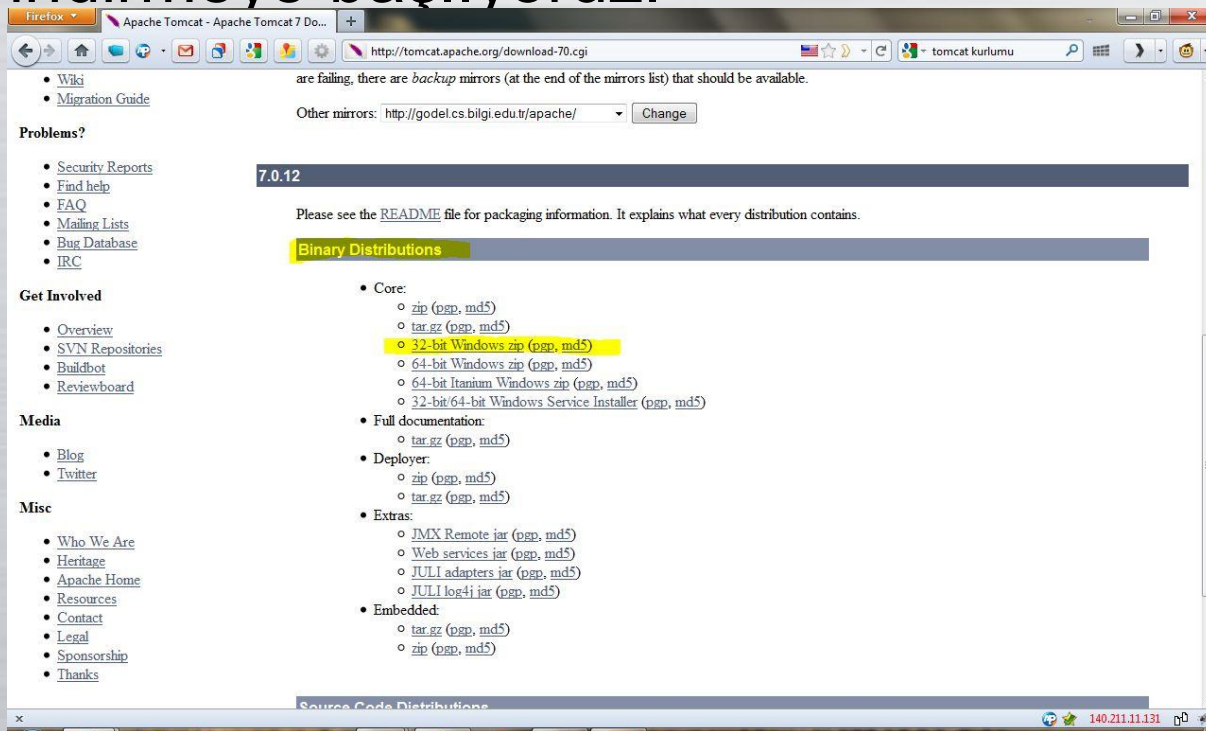
# Tomcat Uygulama Sunucusunun Kurulumu

- İlk olarak <http://tomcat.apache.org> adresine gidiyoruz.

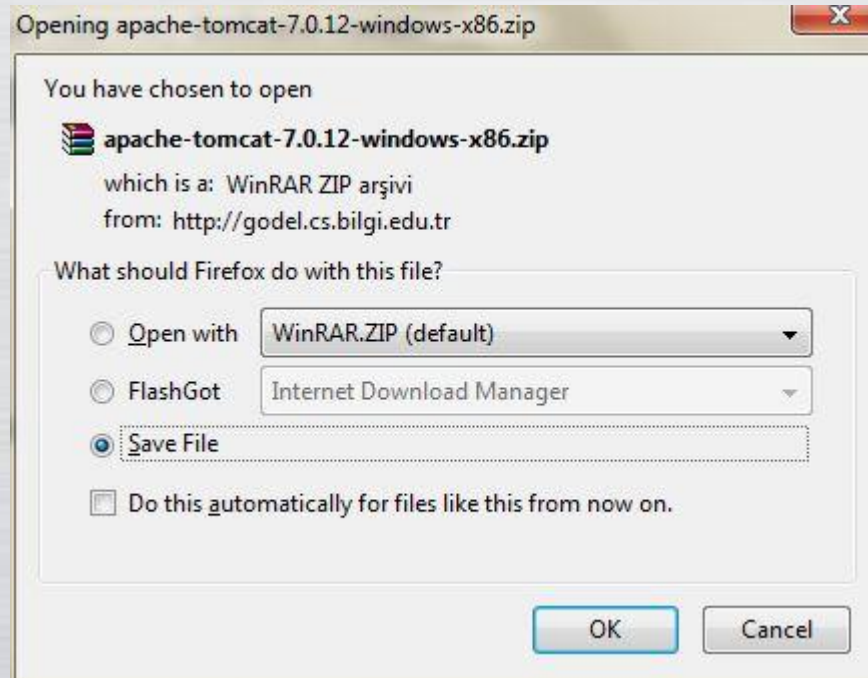


# Tomcat Uygulama Sunucusunun Kurulumu-2

- **Binary Distributions** başlığı altındaki **Core:** seçeneğinin altında **32-bit Windows zip** yazısını göreceksiniz. Buraya tıklıyoruz ve bilgisayarımıza indirmeye başlıyoruz.

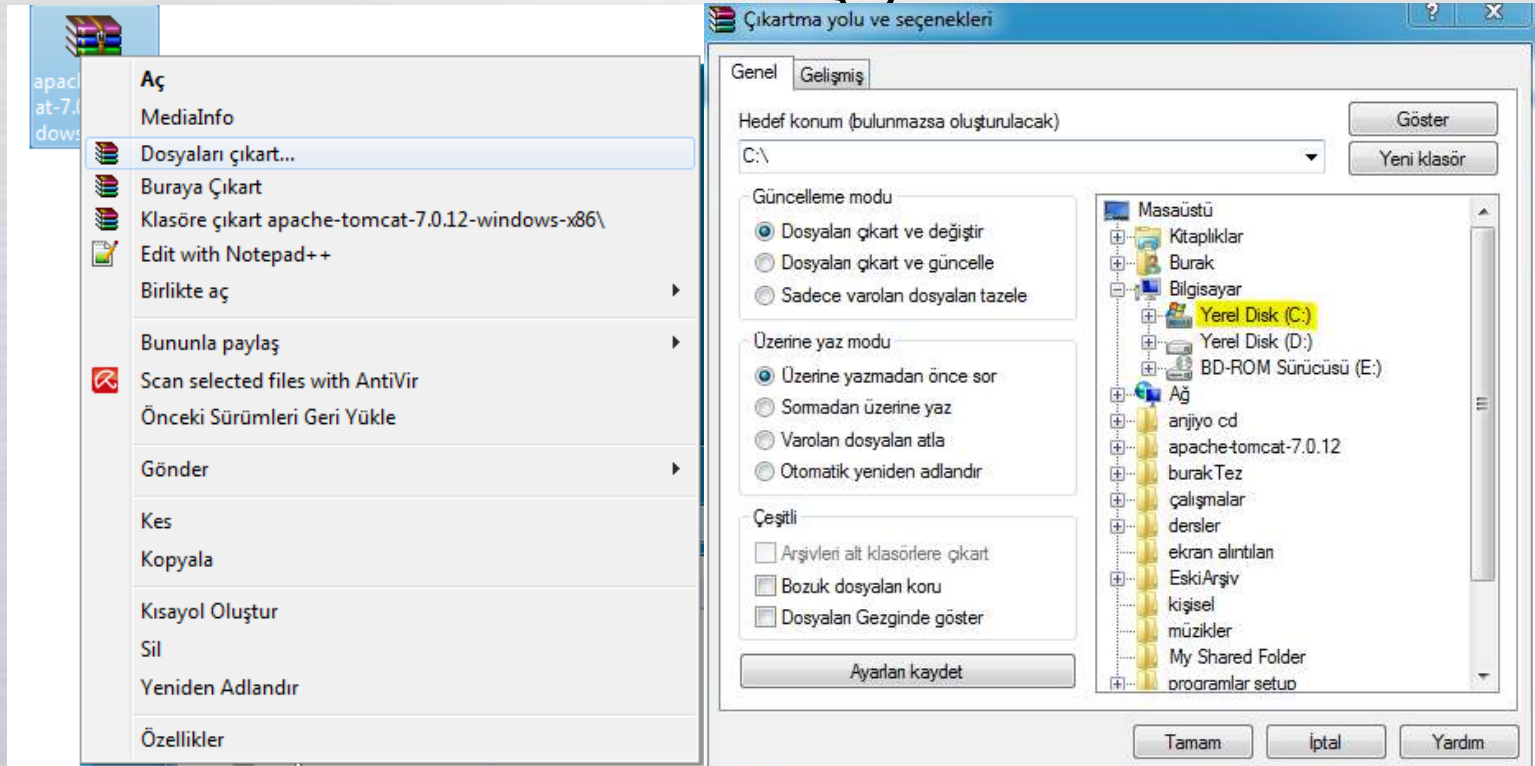


# Tomcat Uygulama Sunucusunun Kaydedilmesi



# Tomcat Sunucusunu C:\'e çıkarma

- İndirdiğimiz dosyayı alttaki ekran görüntüsünde görüldüğü gibi WinRAR benzeri bir arşiv yöneticisiyle C:\ sürücümüzün kök dizinine açıyoruz.





# Java JDK ve JRE'nin Kurulumu

- <http://download.oracle.com/otn-pub/java/jdk/6u25-b06/jdk-6u25-windows-i586.exe> linkinden gerekli **jdk** dosyası indirilir ve çalıştırılır.
- <http://download.oracle.com/otn-pub/java/jdk/6u25-b06/jre-6u25-windows-i586.exe> linkinden gerekli **jre** dosyası indirilir ve çalıştırılır.

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Thank you for downloading this release of the Java™ Platform, Standard Edition Development Kit (JDK™). The JDK is a development environment for building applications, applets, and components using the Java programming language.

The JDK includes tools useful for developing and testing programs written in the Java programming language and running on the Java™ platform.

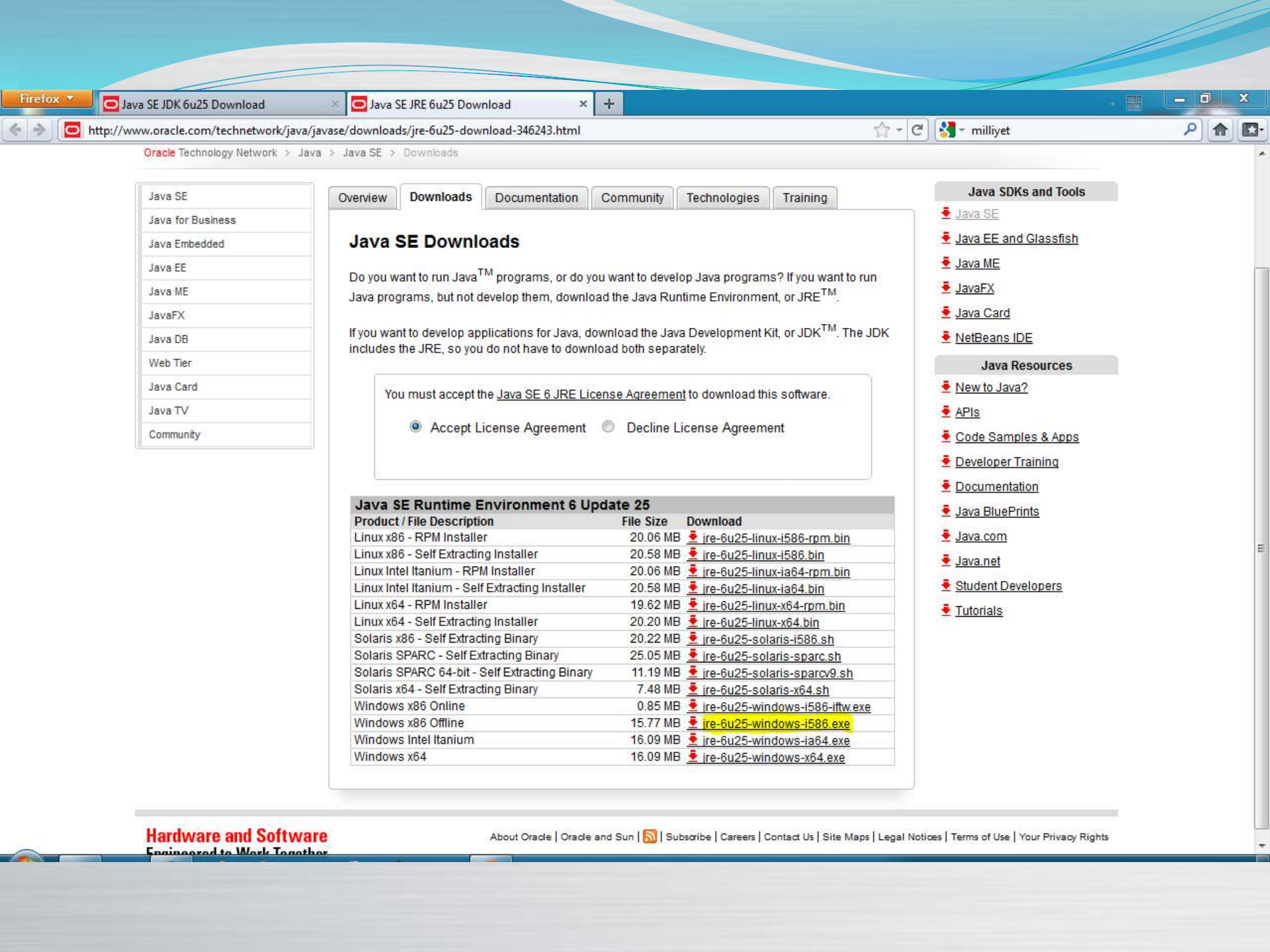
You must accept the [Java SE 6 JDK License Agreement](#) to download this software.

Thank you for accepting the Java SE 6 JDK License Agreement; you may now download this software.

### Java SE Development Kit 6 Update 25

Product / File Description	File Size	Download
Linux x86 - RPM Installer	76.85 MB	<a href="#">jdk-6u25-linux-i586-rpm.bin</a>
Linux x86 - Self Extracting Installer	81.11 MB	<a href="#">jdk-6u25-linux-i586.bin</a>
Linux Intel Itanium - RPM Installer	76.85 MB	<a href="#">jdk-6u25-linux-ia64-rpm.bin</a>
Linux Intel Itanium - Self Extracting Installer	81.11 MB	<a href="#">jdk-6u25-linux-ia64.bin</a>
Linux x64 - RPM Installer	77.06 MB	<a href="#">jdk-6u25-linux-x64-rpm.bin</a>
Linux x64 - Self Extracting Installer	81.36 MB	<a href="#">jdk-6u25-linux-x64.bin</a>
Solaris x86 - Self Extracting Binary	81.00 MB	<a href="#">jdk-6u25-solaris-i586.sh</a>
Solaris x86 - Packages - tar.Z	136.67 MB	<a href="#">jdk-6u25-solaris-i586.tar.Z</a>
Solaris SPARC - Self Extracting Binary	85.96 MB	<a href="#">jdk-6u25-solaris-sparc.sh</a>
Solaris SPARC - Packages - tar.Z	141.11 MB	<a href="#">jdk-6u25-solaris-sparc.tar.Z</a>
Solaris SPARC 64-bit - Self Extracting Binary	12.24 MB	<a href="#">jdk-6u25-solaris-sparcv9.sh</a>
Solaris SPARC 64-bit - Packages - tar.Z	15.58 MB	<a href="#">jdk-6u25-solaris-sparcv9.tar.Z</a>
Solaris x64 - Self Extracting Binary	8.49 MB	<a href="#">jdk-6u25-solaris-x64.sh</a>
Solaris x64 - Packages - tar.Z	12.25 MB	<a href="#">jdk-6u25-solaris-x64.tar.Z</a>
Windows x86	76.66 MB	<a href="#">jdk-6u25-windows-i586.exe</a>
Windows Intel Itanium	67.27 MB	<a href="#">jdk-6u25-windows-ia64.exe</a>
Windows x64	67.27 MB	<a href="#">jdk-6u25-windows-x64.exe</a>

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- Java EE and Glassfish
- Java ME
- JavaFX
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Firefox

Java SE JDK 6u25 Download

Java SE JRE 6u25 Download

http://www.oracle.com/technetwork/java/javase/downloads/jre-6u25-download-346243.html

milliyet

Oracle Technology Network > Java > Java SE > Downloads

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## Java SE Downloads

Do you want to run Java™ programs, or do you want to develop Java programs? If you want to run Java programs, but not develop them, download the Java Runtime Environment, or JRE™.

If you want to develop applications for Java, download the Java Development Kit, or JDK™. The JDK includes the JRE, so you do not have to download both separately.

You must accept the [Java SE 6 JRE License Agreement](#) to download this software.

☒ Accept License Agreement ☐ Decline License Agreement

### Java SE Runtime Environment 6 Update 25

Product / File Description	File Size	Download
Linux x86 - RPM Installer	20.06 MB	<a href="#">jre-6u25-linux-i586-rpm.bin</a>
Linux x86 - Self Extracting Installer	20.58 MB	<a href="#">jre-6u25-linux-i586.bin</a>
Linux Intel Itanium - RPM Installer	20.06 MB	<a href="#">jre-6u25-linux-ia64-rpm.bin</a>
Linux Intel Itanium - Self Extracting Installer	20.58 MB	<a href="#">jre-6u25-linux-ia64.bin</a>
Linux x64 - RPM Installer	19.62 MB	<a href="#">jre-6u25-linux-x64-rpm.bin</a>
Linux x64 - Self Extracting Installer	20.20 MB	<a href="#">jre-6u25-linux-x64.bin</a>
Solaris x86 - Self Extracting Binary	20.22 MB	<a href="#">jre-6u25-solaris-i586.sh</a>
Solaris SPARC - Self Extracting Binary	25.05 MB	<a href="#">jre-6u25-solaris-sparc.sh</a>
Solaris SPARC 64-bit - Self Extracting Binary	11.19 MB	<a href="#">jre-6u25-solaris-sparcv9.sh</a>
Solaris x64 - Self Extracting Binary	7.48 MB	<a href="#">jre-6u25-solaris-x64.sh</a>
Windows x86 Online	0.85 MB	<a href="#">jre-6u25-windows-i586-iftw.exe</a>
Windows x86 Offline	15.77 MB	<a href="#">jre-6u25-windows-i586.exe</a>
Windows Intel Itanium	16.09 MB	<a href="#">jre-6u25-windows-ia64.exe</a>
Windows x64	16.09 MB	<a href="#">jre-6u25-windows-x64.exe</a>

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- [Java SE](#)
- [Java EE and Glassfish](#)
- [Java ME](#)
- [JavaFX](#)
- [Java Card](#)
- [NetBeans IDE](#)

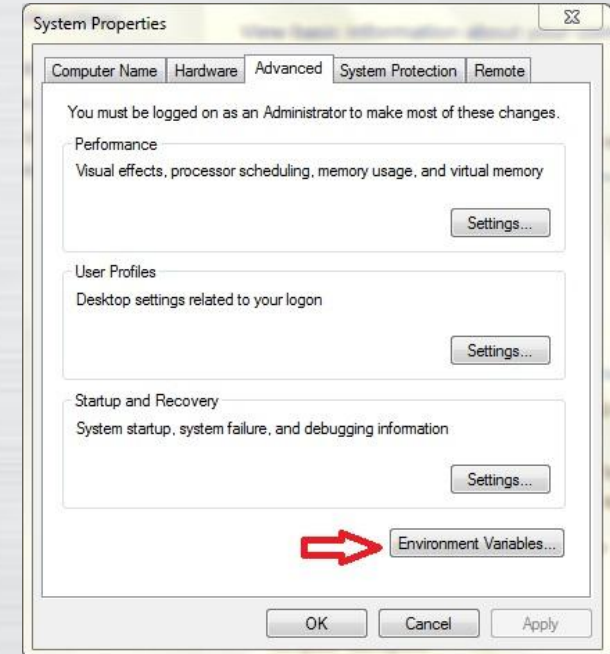
### Java Resources

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- [Student Developers](#)
- [Tutorials](#)



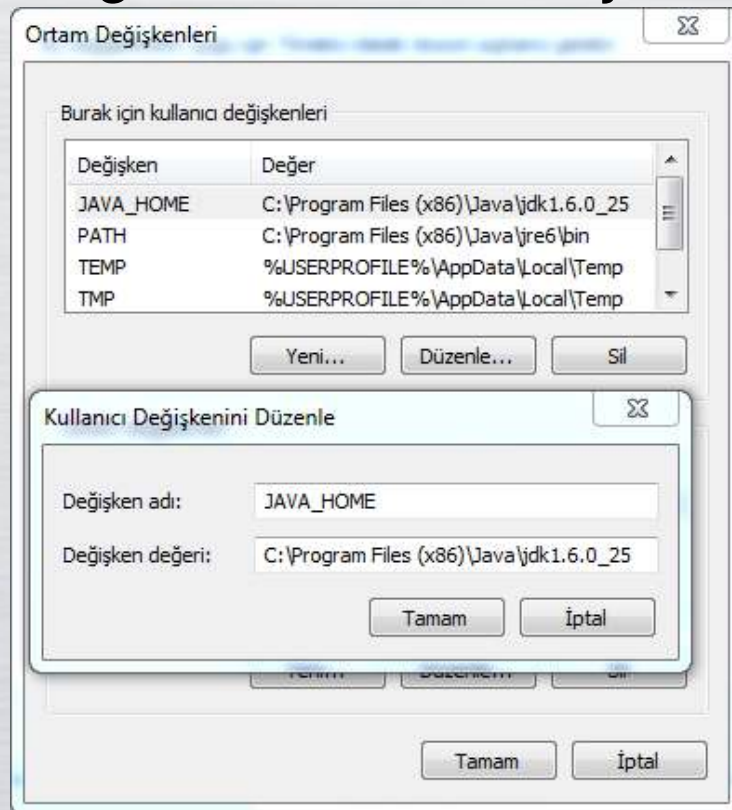
# Tomcat Kurulumunun Yapılandırılması

- Şimdi Tomcat kurulumumuzun **Çevresel Değişkenler** ayarlarını yapalım.
- Bunun için, **Denetim Masası -> Sistem -> Gelişmiş -> Çevresel Değişkenler** 'e girelim.



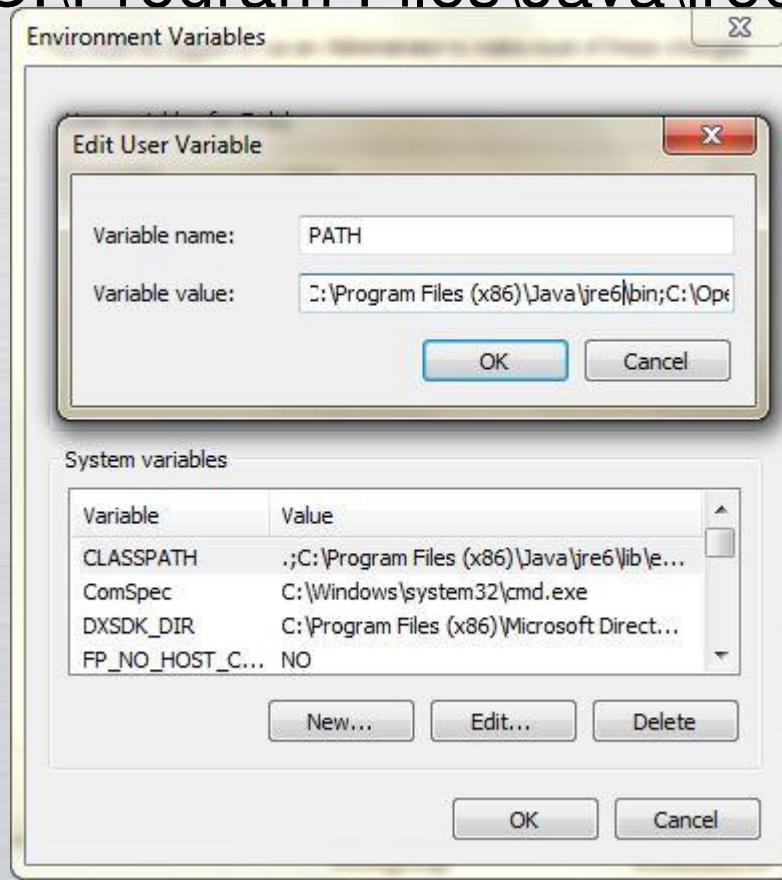
# JAVA\_HOME Değişkeninin Ayarlanması

- JAVA\_HOME değişkeniniz JDK'nızın kurulu olduğu dizini (örneğin C:\Program Files\Java\jdk1.6.0\_25) işaret etmelidir.



# PATH Değişkeninin Ayarlanması

- PATH değişkeniniz JRE'nizin kurulu olduğu dizini (örneğin C:\Program Files\Java\jre6\bin) işaret etmelidir.



# Tomcat Sunucusunun Test Edilmesi

- Kurulum işlemi tamamlandı. Şimdi Tomcat kurulumumuzu test edelim. İlk olarak **C:\apache-tomcat-7.0.12\bin** dizinine gidiyoruz. Ve buradaki **startup.bat** dosyamıza çift tıklıyoruz.
- Eğer çevrsel değişkenlerimizde bir hata varsa görüntü bu şekildedir.

Hata varsa, düzeltip tekrar startup.bat'ı tıklayalım.



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Erdal>cd ..
C:\Users> cd..
C:\>cd apache-tomcat-7.0.12
C:\apache-tomcat-7.0.12>cd bin
C:\apache-tomcat-7.0.12\bin>startup.bat
The JAVA_HOME environment variable is not defined correctly
This environment variable is needed to run this program
NB: JAVA_HOME should point to a JDK not a JRE
C:\apache-tomcat-7.0.12\bin>
```



```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 6.1.7600]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\Erdal>cd /

C:\>cd apache-tomcat-7.0.12

C:\apache-tomcat-7.0.12>cd bin

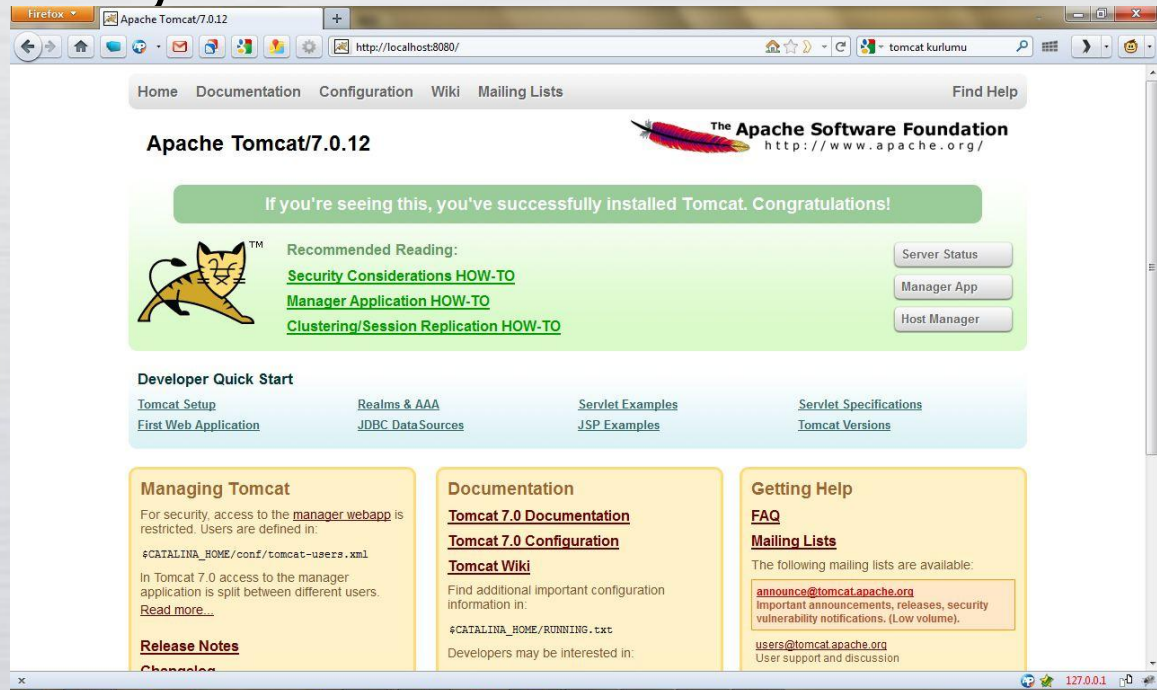
C:\apache-tomcat-7.0.12\bin>startup.bat
Using CATALINA_BASE: "C:\apache-tomcat-7.0.12"
Using CATALINA_HOME: "C:\apache-tomcat-7.0.12"
Using CATALINA_TMPDIR: "C:\apache-tomcat-7.0.12\temp"
Using JRE_HOME: "C:\Program Files (x86)\Java\jdk1.6.0_20"
Using CLASSPATH: "C:\apache-tomcat-7.0.12\bin\bootstrap.jar;C:\apache-tomcat-7.0.12\bin\tomcat-juli.jar"
C:\apache-tomcat-7.0.12\bin>
```

```
Tomcat
30.Nis.2011 17:36:26 org.apache.coyote.AbstractProtocolHandler init
INFO: Initializing ProtocolHandler ["ajp-apr-8009"]
30.Nis.2011 17:36:26 org.apache.catalina.startup.Catalina load
INFO: Initialization processed in 2034 ms
30.Nis.2011 17:36:26 org.apache.catalina.core.StandardService startInternal
INFO: Starting service Catalina
30.Nis.2011 17:36:26 org.apache.catalina.core.StandardEngine startInternal
INFO: Starting Servlet Engine: Apache Tomcat/7.0.12
30.Nis.2011 17:36:26 org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory docs
30.Nis.2011 17:36:26 org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory examples
30.Nis.2011 17:36:27 org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory host-manager
30.Nis.2011 17:36:27 org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory manager
30.Nis.2011 17:36:27 org.apache.catalina.startup.HostConfig deployDirectory
INFO: Deploying web application directory ROOT
30.Nis.2011 17:36:27 org.apache.coyote.AbstractProtocolHandler start
INFO: Starting ProtocolHandler ["http-apr-8080"]
30.Nis.2011 17:36:27 org.apache.coyote.AbstractProtocolHandler start
INFO: Starting ProtocolHandler ["ajp-apr-8009"]
30.Nis.2011 17:36:27 org.apache.catalina.startup.Catalina start
INFO: Server startup in 1419 ms
```

# Tomcat Sunucusunun Test Edilmesi-2

- Uygulamalarımızı test edeceğimizde bu komut istemi penceresi açık kalmalıdır. Şimdi bir Internet Explorer veya Firefox ekranı açalım ve adres satırına **http://localhost:8080** yazalım.

Tomcat kurulumunu  
başarıyla  
tamamladınız.



# Java Enterprise Edition Kurulumu

- İlk olarak <http://www.eclipse.org/downloads/> adresine girilir.
- Eclipse IDE for Java EE Developers içerisinde Windows 32 bit dosyası indirilir.



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## Eclipse Downloads

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Eclipse Helios (3.6.2) Packages for Windows



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**JRebel for Eclipse**

Promoted Download

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**Eclipse SOA Platform for Java and SOA Developers (includes incubating components)**, 188 MB

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### Hint:

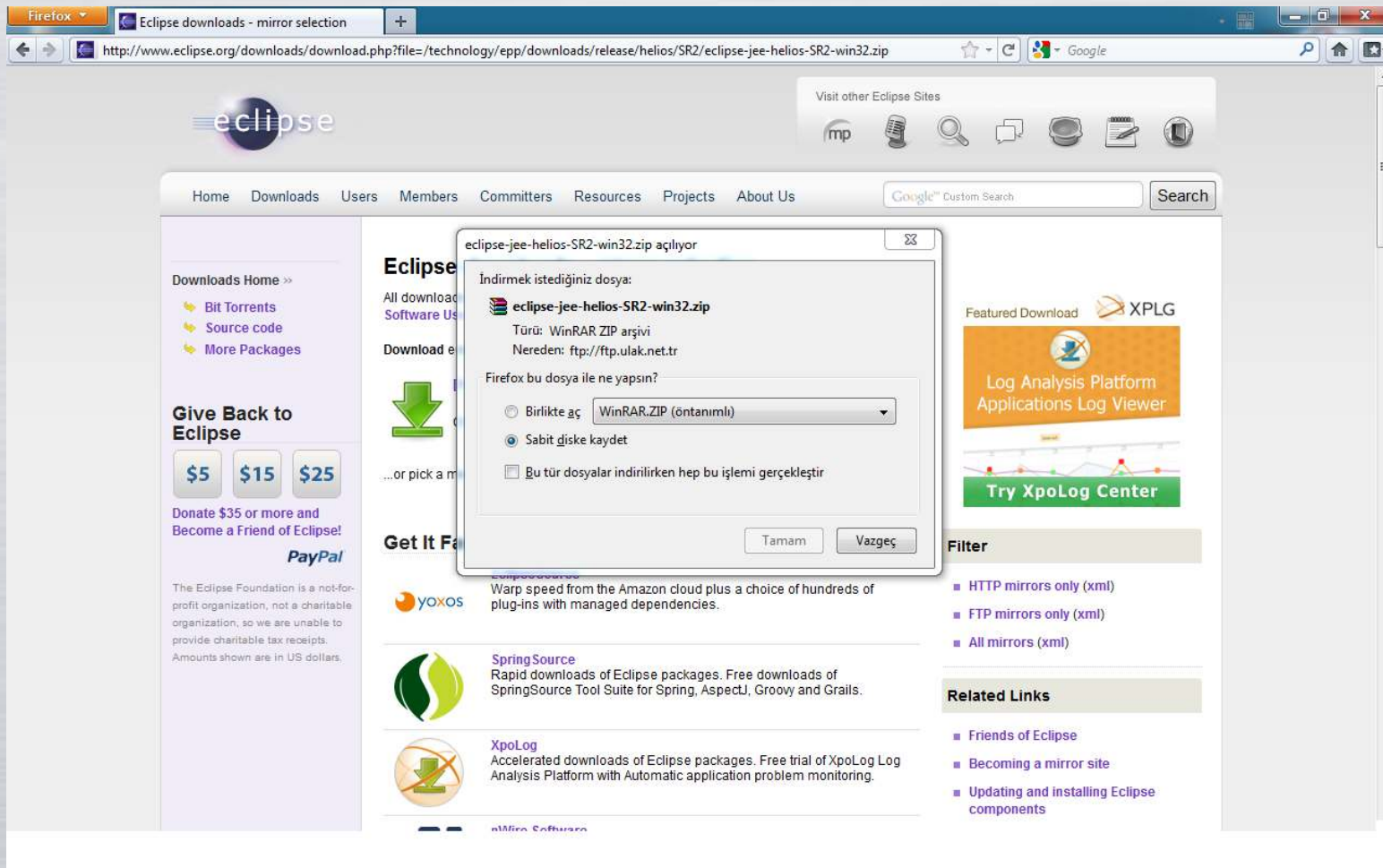
You will need a [Java runtime environment \(JRE\)](#) to use Eclipse (Java SE 5 or greater is recommended). All downloads are provided under the terms and conditions of the [Eclipse Foundation Software User Agreement](#) unless otherwise specified.



### Installing Eclipse

- [Install Guide](#)
- [Known Issues](#)
- [Updating Eclipse](#)

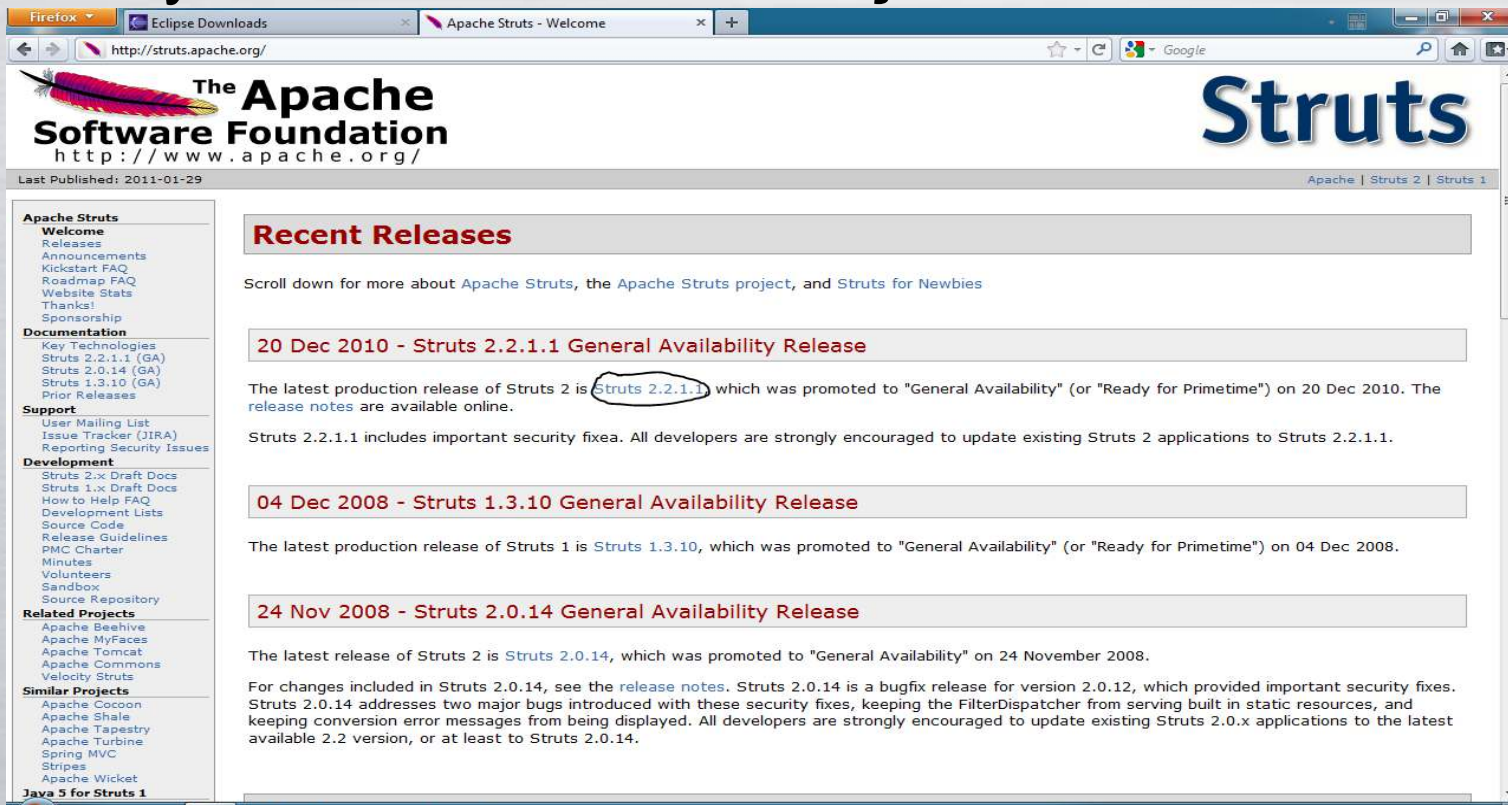




- Eclipse Helios indirildikten sonra klasöre çıkartılır

# Struts kurulumu

- <http://struts.apache.org/> sitesinden Struts 2.2.1.1 dosyası indirilir ve klasöre çıkartılır.



The screenshot shows the Apache Struts website in a Firefox browser window. The browser's address bar displays <http://struts.apache.org/>. The website header features the Apache Software Foundation logo on the left and the word "Struts" in a large, stylized font on the right. Below the header, there is a navigation menu with links for "Welcome", "Releases", "Announcements", "Kickstart FAQ", "Roadmap FAQ", "Website Stats", "Thank!", "Sponsorship", "Documentation", "Support", "Development", and "Related Projects". The "Releases" section is highlighted, showing a list of recent releases. The first release is "20 Dec 2010 - Struts 2.2.1.1 General Availability Release". The text below this release states: "The latest production release of Struts 2 is Struts 2.2.1.1, which was promoted to "General Availability" (or "Ready for Primetime") on 20 Dec 2010. The release notes are available online." The second release is "04 Dec 2008 - Struts 1.3.10 General Availability Release". The text below this release states: "The latest production release of Struts 1 is Struts 1.3.10, which was promoted to "General Availability" (or "Ready for Primetime") on 04 Dec 2008." The third release is "24 Nov 2008 - Struts 2.0.14 General Availability Release". The text below this release states: "The latest release of Struts 2 is Struts 2.0.14, which was promoted to "General Availability" on 24 November 2008." The text continues: "For changes included in Struts 2.0.14, see the [release notes](#). Struts 2.0.14 is a bugfix release for version 2.0.12, which provided important security fixes. Struts 2.0.14 addresses two major bugs introduced with these security fixes, keeping the FilterDispatcher from serving built in static resources, and keeping conversion error messages from being displayed. All developers are strongly encouraged to update existing Struts 2.0.x applications to the latest available 2.2 version, or at least to Struts 2.0.14."

## Struts 2.2.1.1

Apache Struts 2.2.1.1 is an elegant, extensible framework for creating enterprise-ready Java web applications. It is available in a full distribution, or as separate library, source, example and documentation distributions. Struts 2.2.1.1 is the "best available" version of Struts in the 2.2 series.

- [Release Notes](#)
- [Full Distribution:](#)
  - [struts-2.2.1.1-all.zip](#) (110mb) [PGP] [MD5]
- [Example Applications:](#)
  - [struts-2.2.1.1-apps.zip](#) (34mb) [PGP] [MD5]
- [Essential Dependencies Only:](#)
  - [struts-2.2.1.1-lib.zip](#) (11mb) [PGP] [MD5]
- [Documentation:](#)
  - [struts-2.2.1.1-docs.zip](#) (60mb) [PGP] [MD5]

Firefox - Eclipse Downloads - Apache Struts - Download a Release

http://struts.apache.org/download.cgi#struts2211

### Struts 2.2.1.1

Apache Struts 2.2.1.1 is an elegant, extensible framework for creating enterprise-ready Java web applications. It is available in a full distribution, or as separate library, source, example and documentation distributions. Struts 2.2.1.1 is the "best available" version of Struts in the 2.2 series.

- [Release Notes](#)
- [Full Distribution:](#)
  - [struts-2.2.1.1-all.zip](#) (110mb) [PGP] [MD5]
- [Example Applications:](#)
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- [Essential Dependencies Only:](#)
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- [Documentation:](#)
  - [struts-2.2.1.1-docs.zip](#) (60mb) [PGP] [MD5]

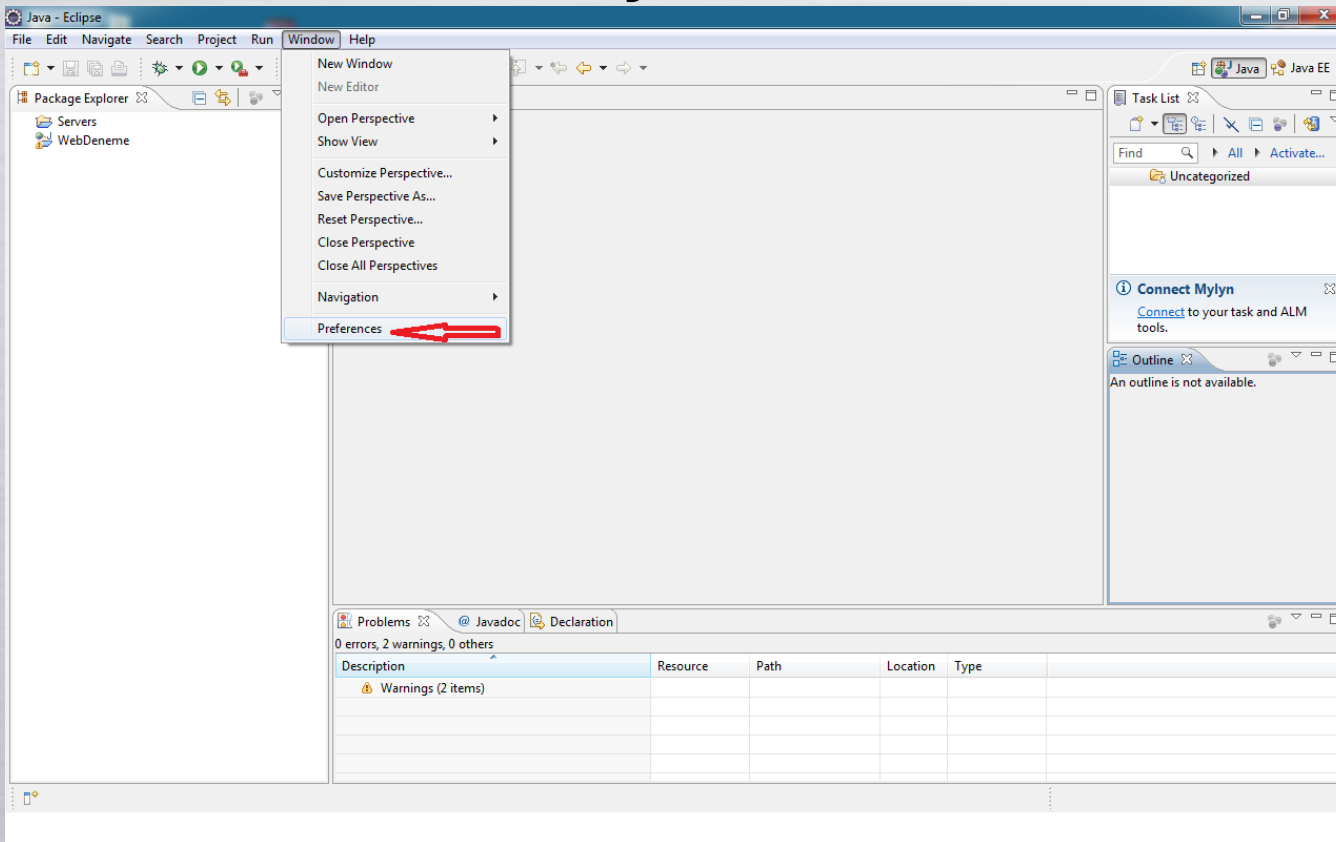
### Struts 2.0.14

Apache Struts 2 is an elegant, extensible framework for creating enterprise-ready Java web applications. It is available in a full distribution, or as separate library, source, example and documentation distributions. Struts 2.0.14 is the "best available" version of Struts in the 2.0 series.

- [Release Notes](#)
- [Full Distribution:](#)
  - [struts-2.0.14-all.zip](#) (91mb) [PGP] [MD5]
- [Example Applications:](#)
  - [struts-2.0.14-apps.zip](#) (23mb) [PGP] [MD5]
- [Blank Application only:](#)
  - [struts2-blank-2.0.14.war](#) (Also included in apps.) (3mb) [PGP] [MD5]
- [Essential Dependencies Only:](#)
  - [struts-2.0.14-lib.zip](#) (4mb) [PGP] [MD5]
- [Documentation:](#)
  - [struts-2.0.14-docs.zip](#) (57mb) [PGP] [MD5]
- [Source:](#)
  - [struts-2.0.14-src.zip](#) (22mb) [PGP] [MD5]
- [Alternative Java 4 JARs:](#)
  - [struts-2.0.14-backport.zip](#) (3mb) [PGP] [MD5]

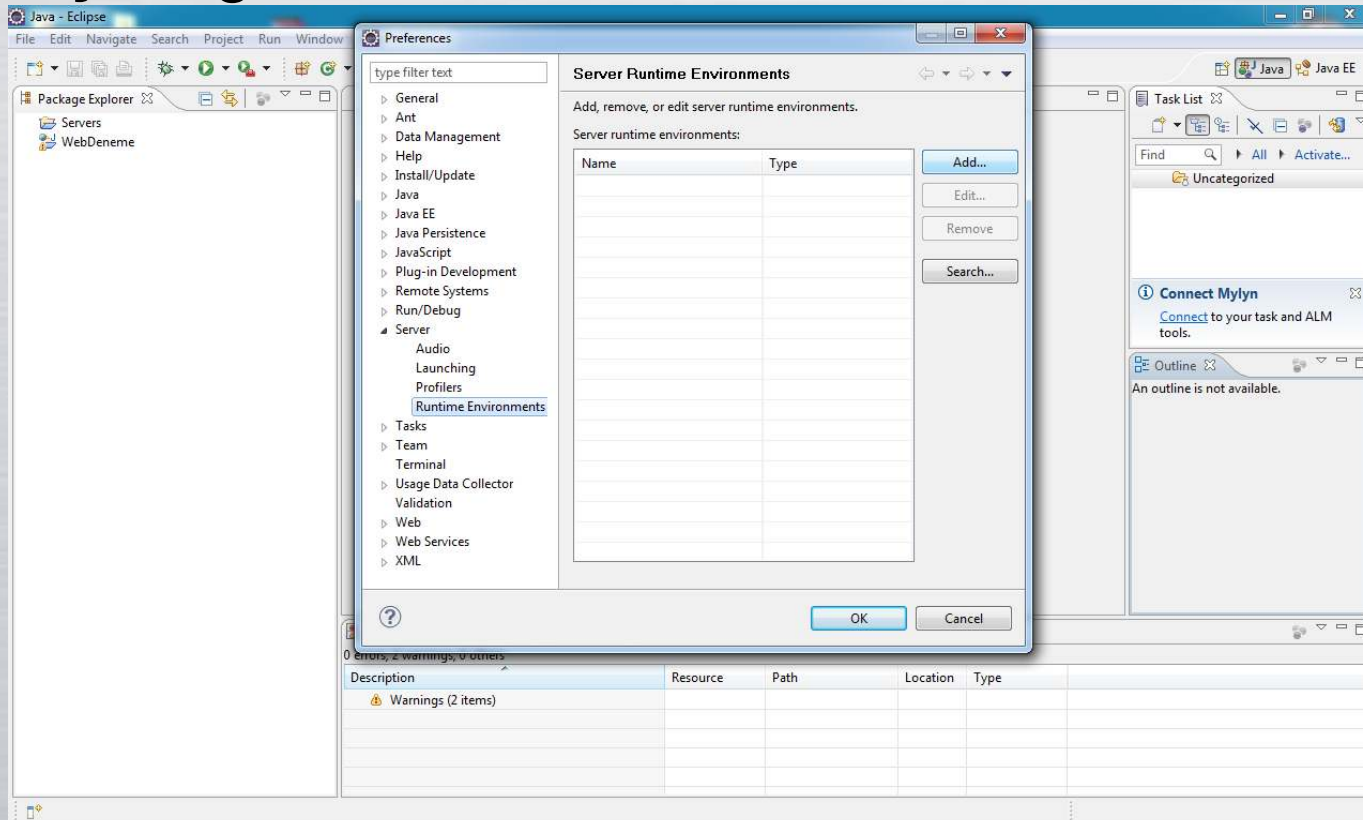
# Tomcat - Eclipse Entegrasyonu

- **Eclipse Helios** çalıştırılır. **Window** menüsünden **Preferences** seçilir.

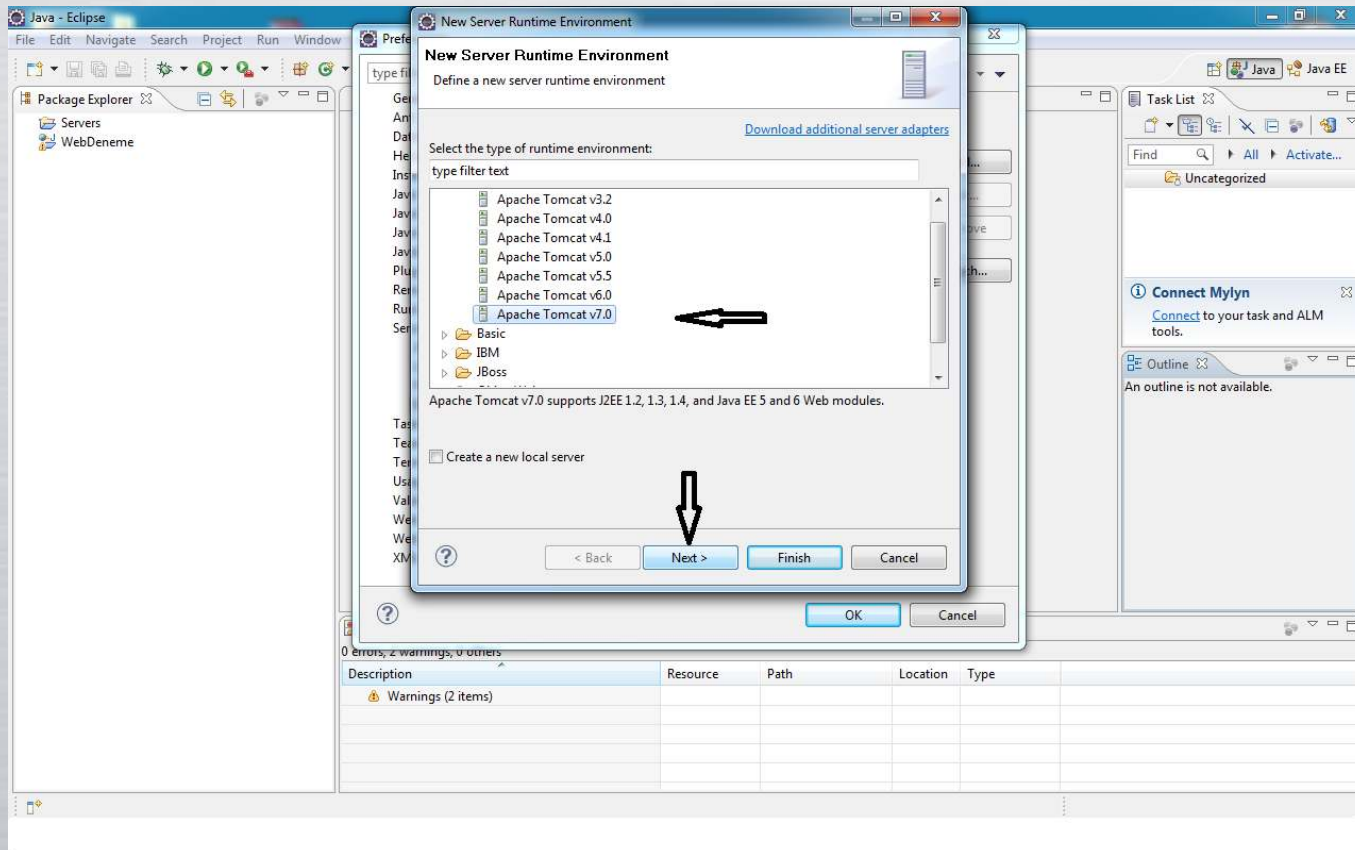




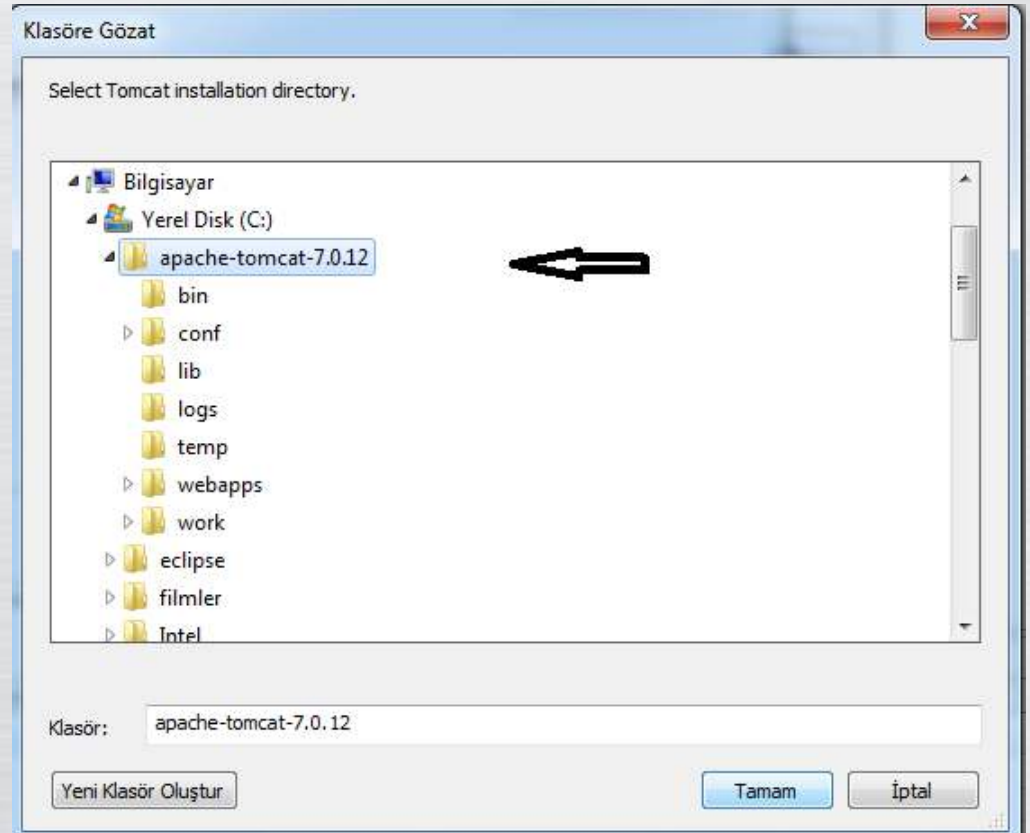
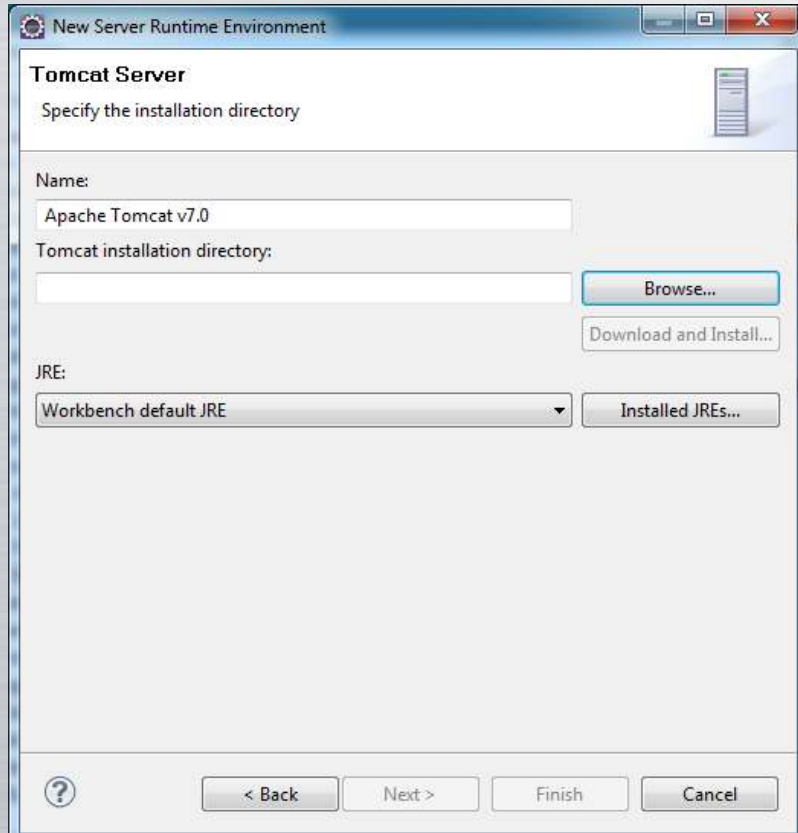
- **Server** sekmesinden **Runtime Environments** seçeneği tıklanır. Gelen menüde **Add** butonu seçilir.



- Menüden **Apache Tomcat v7.0** seçilerek **Next** butonuna basılır.



- **Browse** butonuna basılarak **Tomcat** in yüklü olduğu dizin seçilir ve **Finish** butonuna basılır.



New Server Runtime Environment

### Tomcat Server


⚠ Tomcat requires a Java SDK in order to compile JSP files. Ensure that the JRE preference settings point to an SDK install location.

Name:  
Apache Tomcat v7.0

Tomcat installation directory:  
C:\apache-tomcat-7.0.12 Browse...

Download and Install...

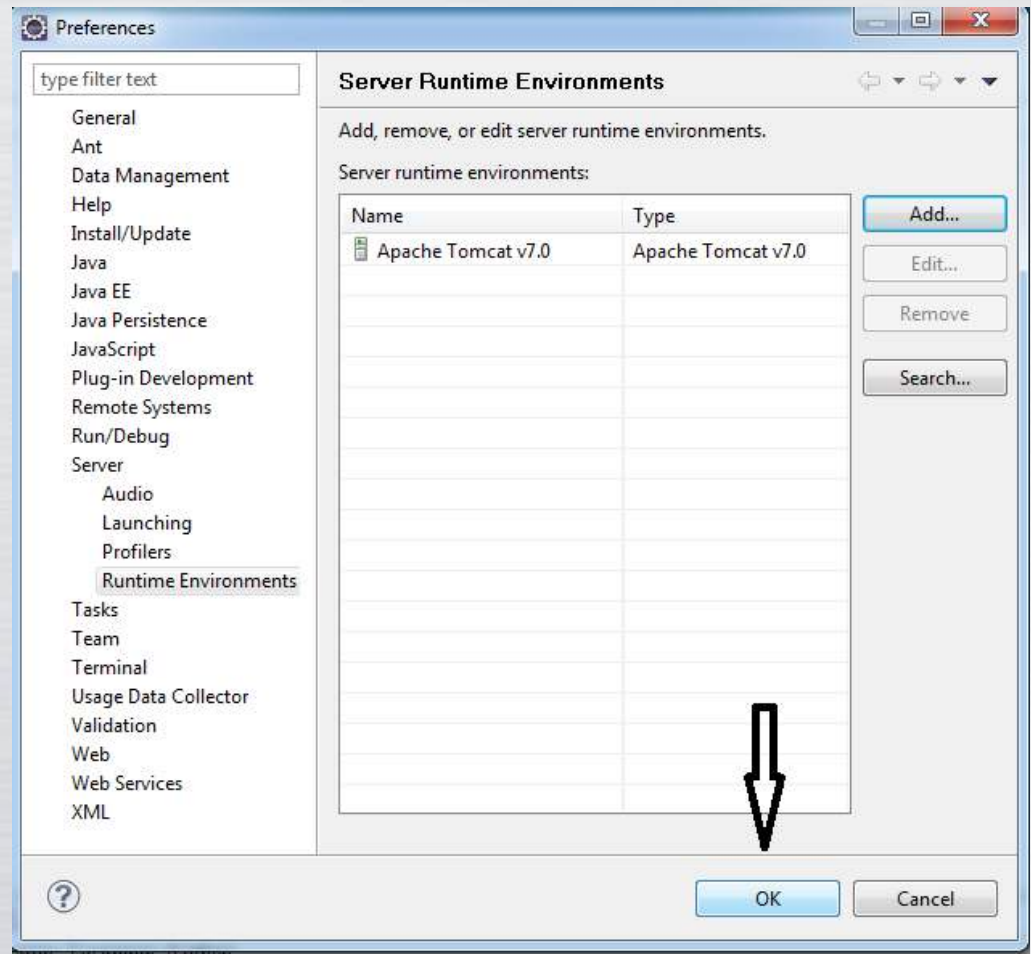
JRE:  
Workbench default JRE Installed JREs...



? < Back Next > Finish Cancel

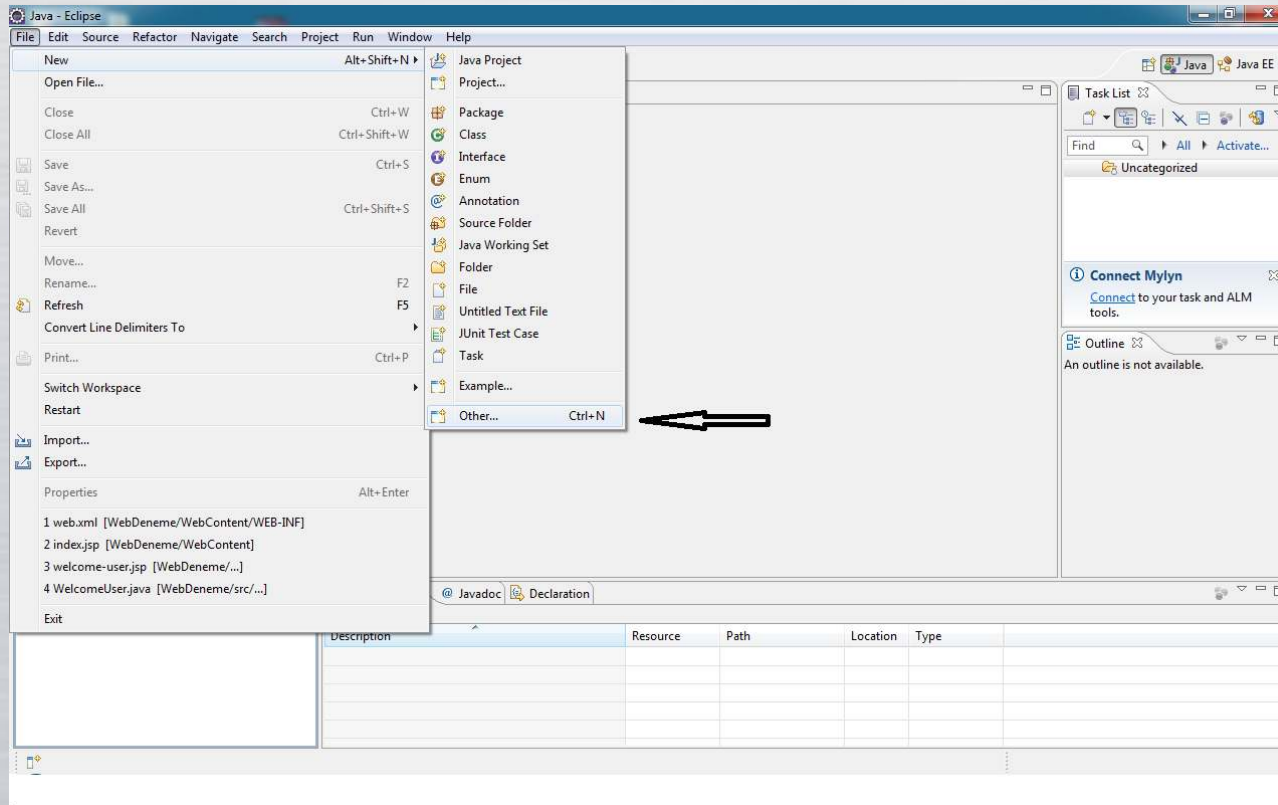


- Son olarak gelen menüden **Ok** butonuna basılarak işlem tamamlanır.



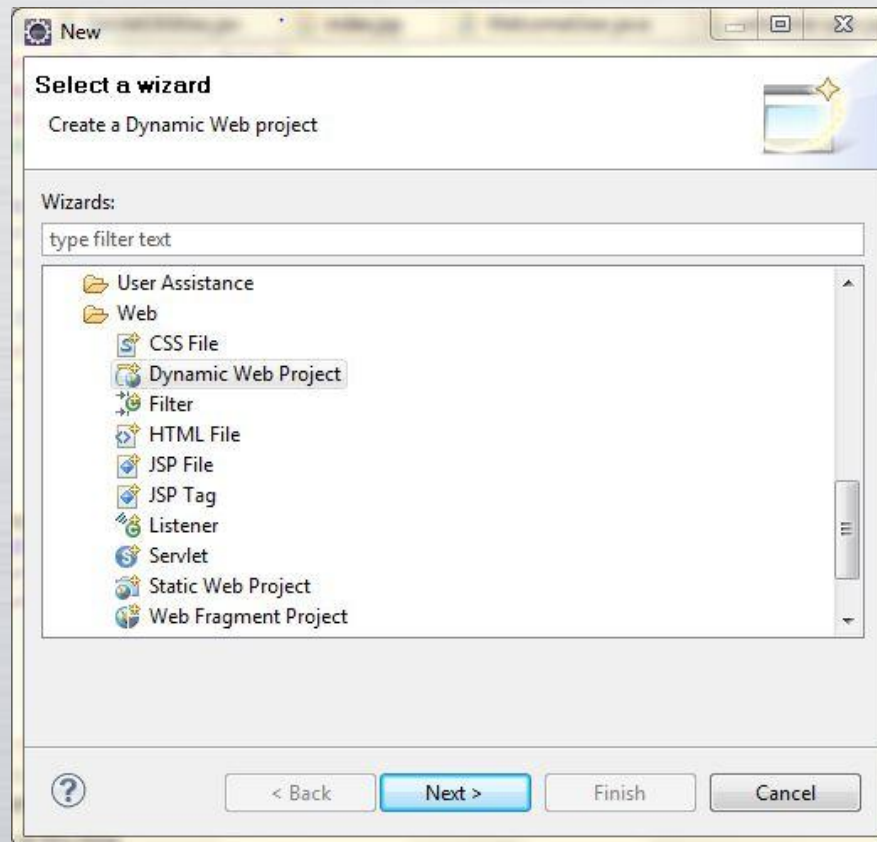
# Struts Kütüphanelerinin Eclipse EE ye eklenmesi

- Eclipse Helios çalıştırılır. **File** sekmesinden **New Other** seçeneği tıklanır.

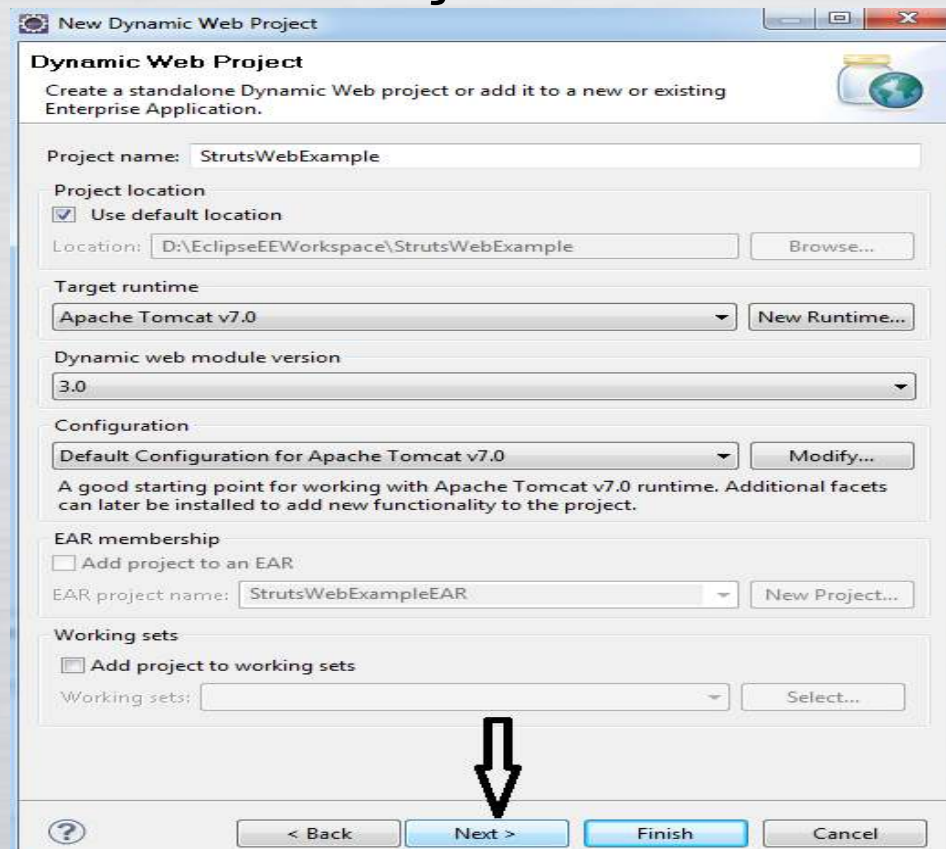


# Yeni Bir Web Projesi Oluşturulması

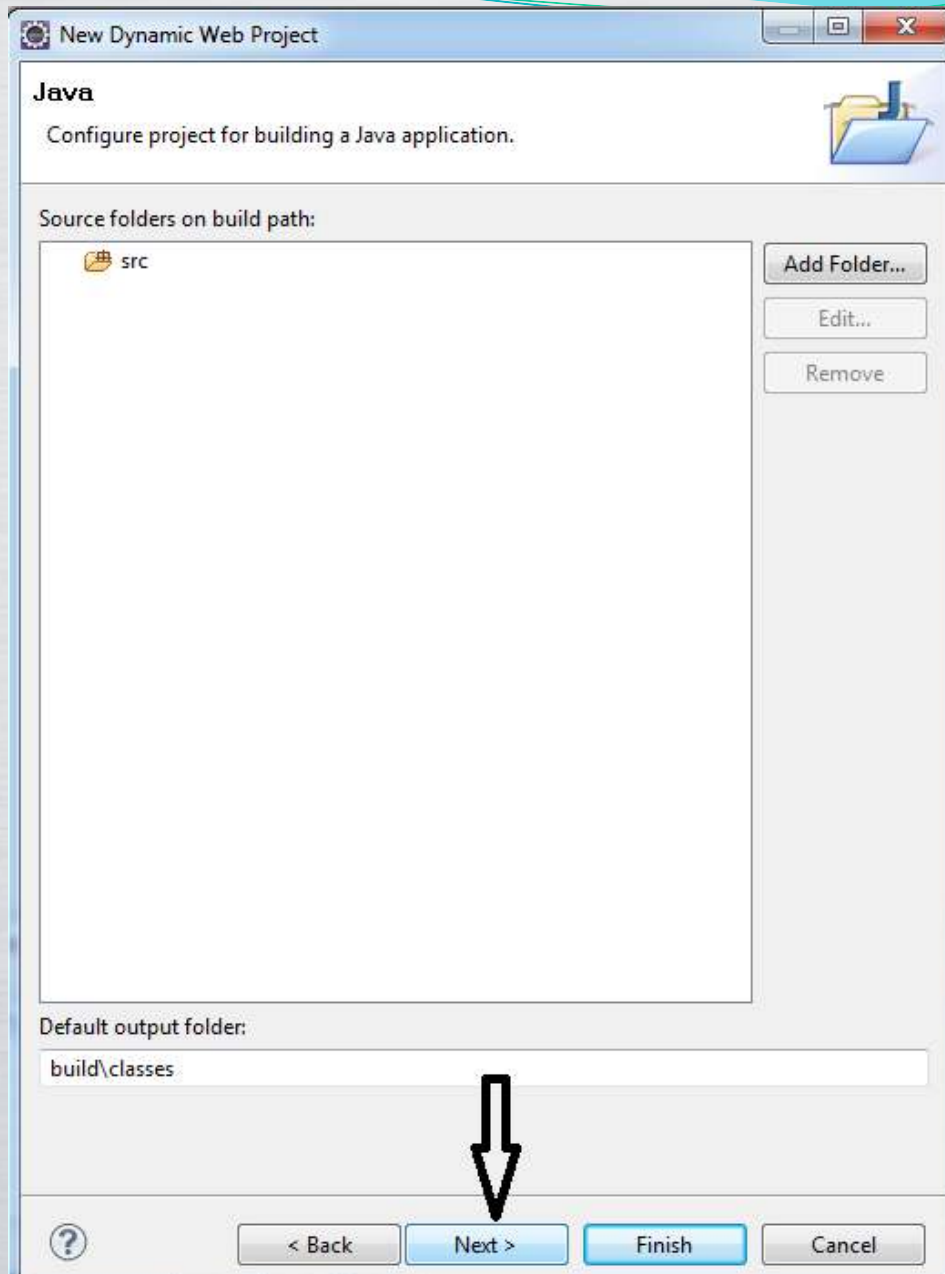
- **Web** sekmesinden **Dynamic Web Project** seçeneği seçilerek **Next** butonuna basılır.



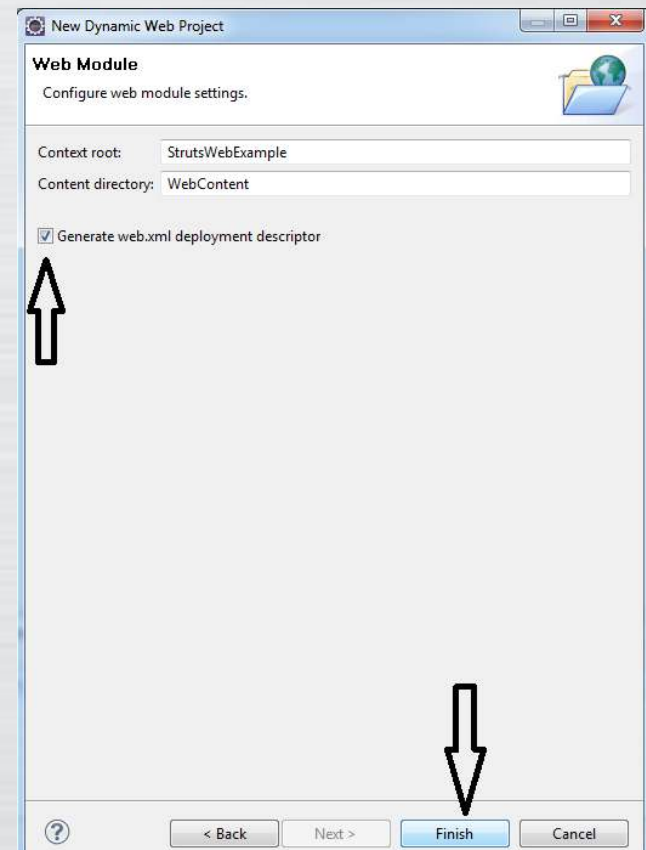
- Projeye bir isim verilerek **Target runtime** olarak **Apache Tomcat v7.0** seçilir ve **Next** butonuna basılır.





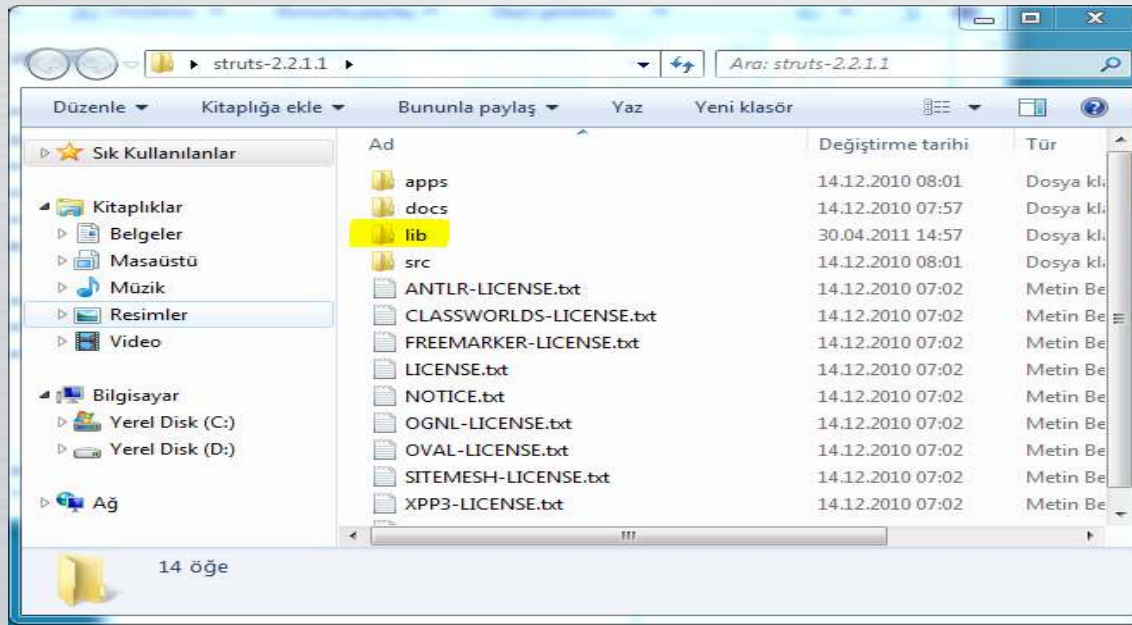


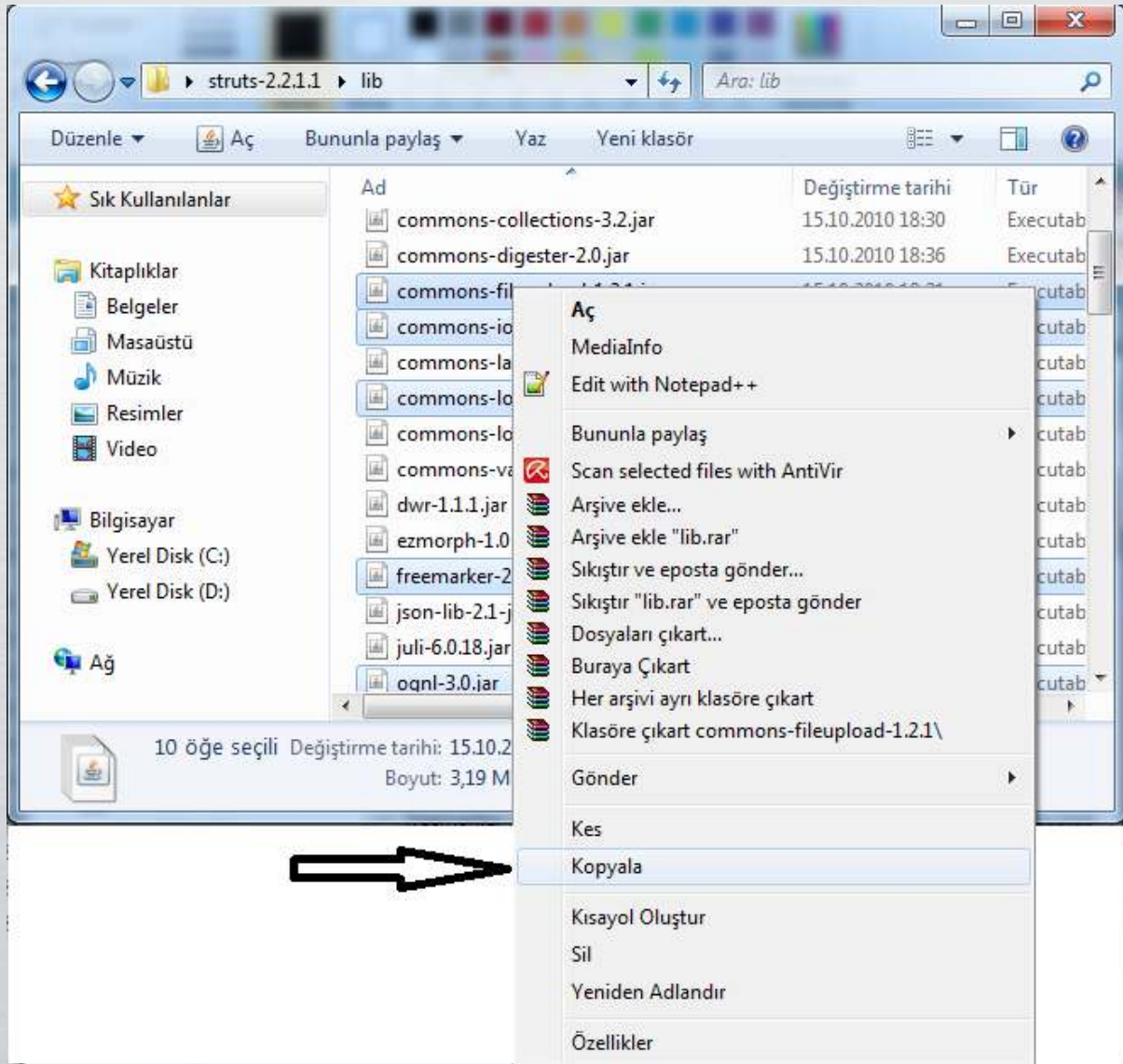
- **Generate web xml deployment descriptor** seçeneği işaretlenir ve **Finish** butonuna basılarak web projesi oluşturulmuş olur.



# Struts Kütüphanelerinin Eklenmesi

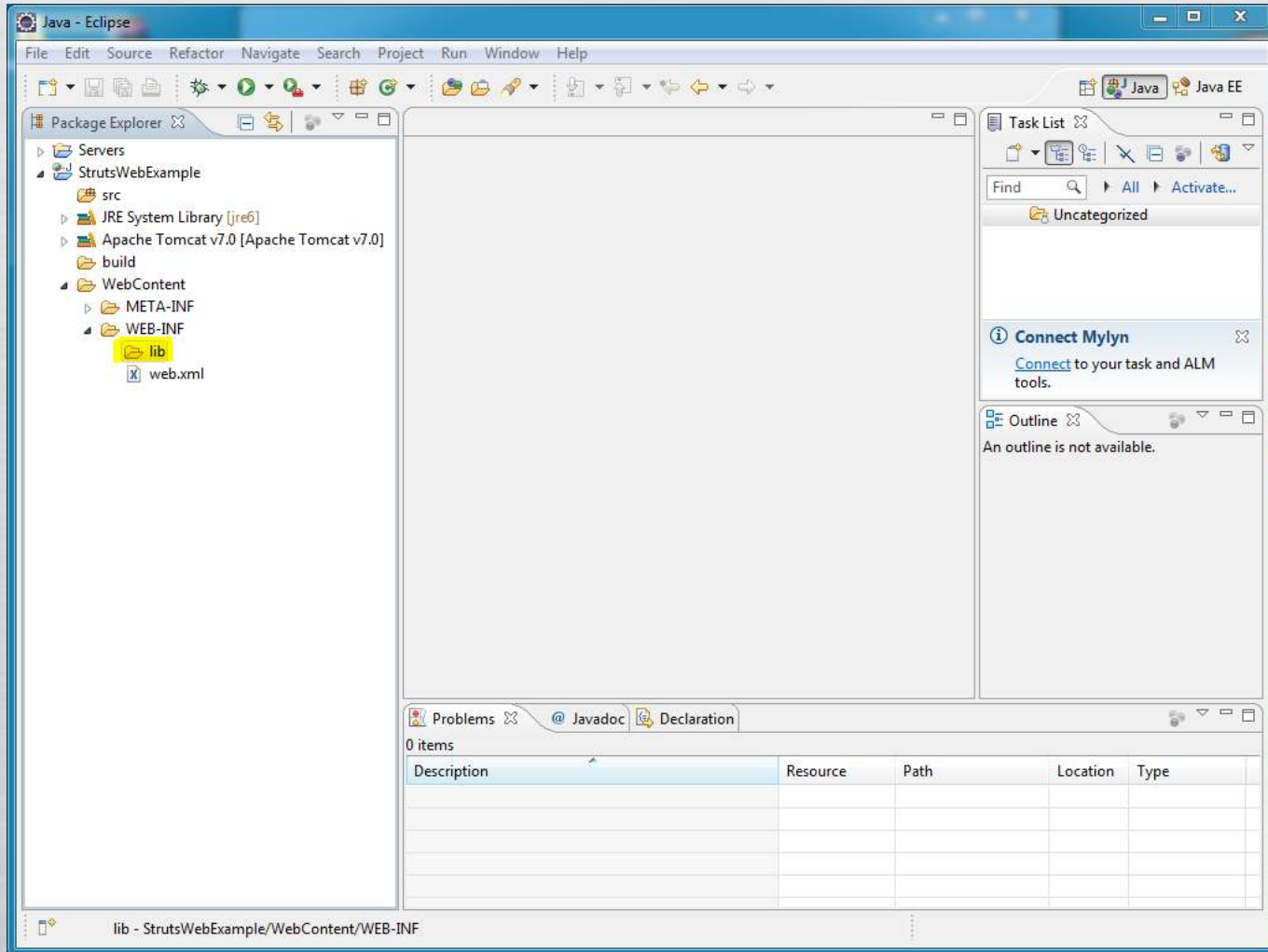
- İndirilen **struts-2.2.1.1** klasörünün içindeki **lib** klasörüne girilir ve gerekli olan **jar** dosyaları kopyalanır. Bu projede örnek olarak “**commons-fileupload, commons-io, commons-logging, freemaker, ognl, spring-test, struts2-convention-plugin, struts2-core, struts2-junit-plugin, xwork-core**” isimli kütüphaneler eklenmiştir.

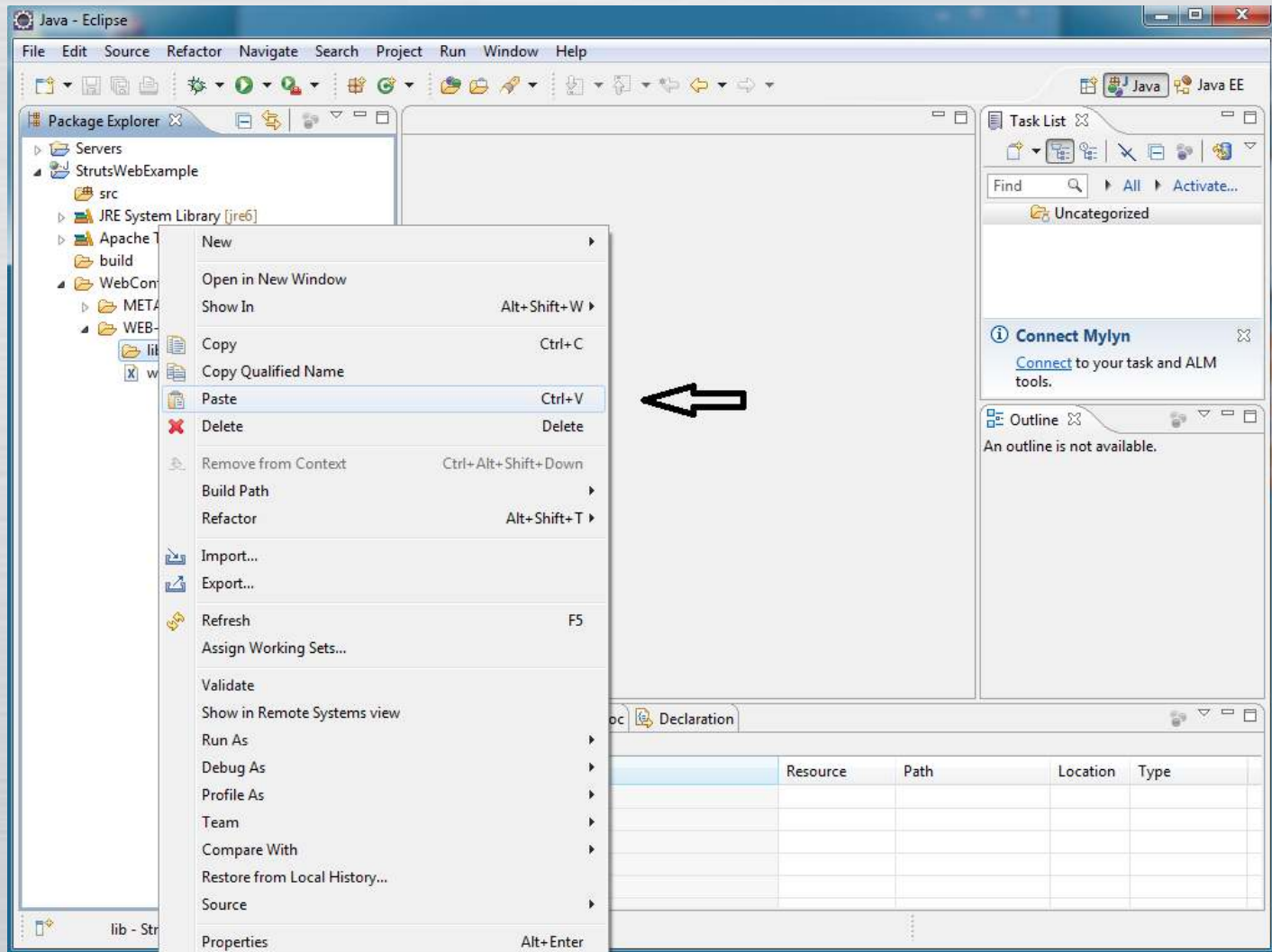




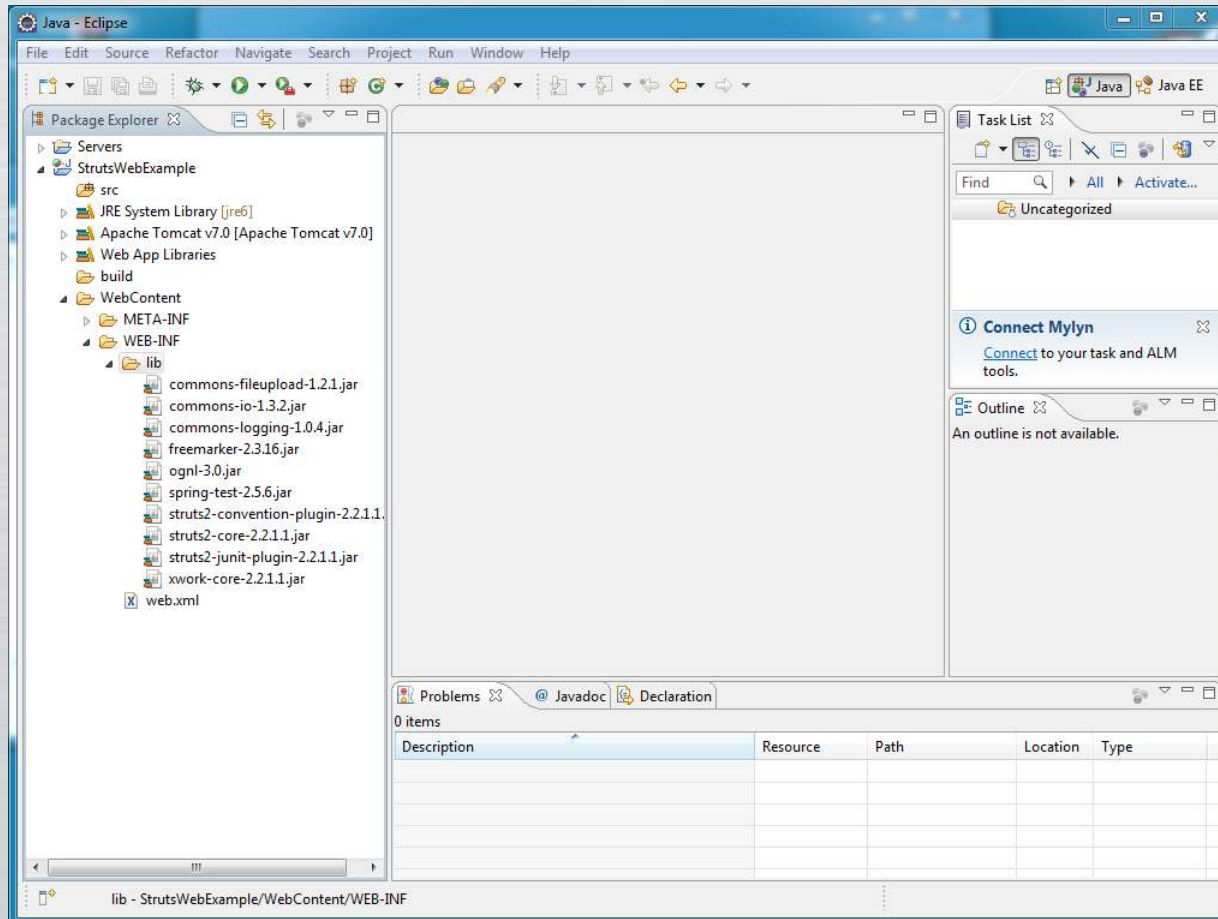


- Eclipse 'te oluşturduğumuz projede **WEB-INF** klasörü içerisindeki **lib** klasörüne kopyaladığımız **jar** dosyaları yapıştırılır.





# Struts2 Kütüphanelerinin Web Projesine Eklenmiş Hali



# Örnek Uygulamada Kullanılacak Kütüphaneler

- Yapmış olduğumuz örnek uygulamada “ **commons-beanutils, commons-digester, commons-fileupload, commons-io, commons-logging, freemaker, junit, ognl, spring-test, struts-config-browser-plugin, struts2-convention-plugin, struts2-core, struts2-tiles-plugin, xwork** ” isimli kütüphaneleri kullandık.



# Struts2 Kütüphanelerinin Örnek Uygulama Projesine Eklenmiş Hali

